



WASHINGTON STATE PATROL – FIRE PROTECTION BUREAU
INSPECTION SECTION

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Remote Annunciator Panel/Derangement Signal Requirements for Generators

The Requirement:

An alarm annunciator/derangement signal is required for generators at a continuously monitored location indicating generator alarm conditions. NFPA 99 3-4.1.1.15, NFPA 110 3-5.6.1

NFPA 99 Standard for Health Care Facilities, 1999 Edition Section 3-4.1.1.15

Alarm Annunciator.

A remote annunciator, storage battery powered, shall be provided to operate outside of the generating room in a location readily observed by operating personnel at a regular work station (see NFPA 70, National Electrical Code, Section 700-12.)

The annunciator shall indicate alarm conditions of the emergency or auxiliary power source as follows:

(a) Individual visual signals shall indicate the following:

- 1. When the emergency or auxiliary power source is operating to supply power to load*
- 2. When the battery charger is malfunctioning*

(b) Individual visual signals plus a common audible signal to warn of an engine-generator alarm condition shall indicate the following:

- 1. Low lubricating oil pressure*
- 2. Low water temperature (below those required in 3-4.1.1.9)*
- 3. Excessive water temperature*
- 4. Low fuel - when the main fuel storage tank contains less than a 3-hour operating supply*
- 5. Overcrank (failed to start)*
- 6. Overspeed*

*Where a regular work station will be unattended periodically, an audible and visual derangement signal, appropriately labeled, shall be established at a continuously monitored location. **This derangement signal shall activate when any of the conditions in 3-4.1.1.15(a) and (b) occur, but need not display these conditions individually.** [110: 3-5.5.2]*

Summary: When the annunciator panel is not at a continuously monitored location, install an audible and visual derangement signal to a continuously monitored location. Items listed above need not be displayed individually—just one light and one audible signal are required.

Note:

- These changes are required to be submitted to Department of Health Construction Review for plan review.
- Washington state licensed nursing homes are required to have a generator per WAC 388-97-2200(2)

Resources for Licensed Care Facilities - http://www.wsp.wa.gov/fire/insp_resources.htm.